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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/537,043	01/17/2006	WeiLiang Lian	6246-000004/US/NP	1313
28997	7590	02/04/2009	EXAMINER	
HARNESS, DICKEY, & PIERCE, P.L.C.			TESHALE, AKELAW	
7700 Bonhomme, Suite 400			ART UNIT	PAPER NUMBER
ST. LOUIS, MO 63105			2614	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/537,043	LIAN ET AL.	
	Examiner	Art Unit	
	AKELAW A. TESHALE	2614	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 01 June 2005.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-20 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _____.
 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) Notice of Informal Patent Application
 6) Other: _____.

DETAILED ACTION***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. **Claims 1-20** are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

3. **Claim 1** line 1, the limitation "next generation network" is not clear because it is not known what is considered as next generation network. The claimed next generation network broadly covers **any** future network and it is not defined in the specifications. Also, terms INAP, CAP, MAP should be spell out for clarity. Moreover, the CAP and MAP recited in the parenthesis are confusing because is not clear if they are part of the claimed limitations. Also line 9, "encodingldecoding" is not clear because "/" was not defined; it could mean "and" or "or".

Claims 2-5, were rejected because they depend on a rejected claim.

Claims 6-20, have terms that should be spelled out for clarity.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. **Claims 1-20** are rejected under 35 U.S.C. 102(b) as being anticipated by Finkelstein et al (The Future of Intelligent Network).

As to **claim 1**, Finkelstein discloses a Softswitch for a next generation Network (see fig.4, the call agent is the softswitch and under Voice-Over-Packet Network see lines 22 and 25); a network adaptive device for implementing the communication between the Softswitch and other devices in said network, as well as receiving call requests (see fig.4 and under the intelligent network lines 15-18, the SSF and the CCF are the network adaptive device they do the typical call connection between the switch and other devices and handle call request); a call server for determining whether the call received by said network adaptive device is a common call or a call of the intelligent network and processing the common call (see fig.4 and under the intelligent network lines 12-24, the SCF is the call server and is consulted for instructions by the network adaptive device for instructions therefore he will process the common calls); and an INAP (CAP. MAP) adapter for responding

the call of the intelligent network and encoding/decoding the INAP message (see under Voice-Over-Packet Network lines 35-46, the IN capabilities can be access using SS71 TCAP therefore INAP which is layer on top of the TCAP).

As to **claim 6**, Finkelstein discloses a system for implementing an intelligent network, including: a Softswitch equipment, comprising: a network adaptive device for implementing the communication between the Softswitch and other devices in said network, as well as receiving the call request (see fig.4 and under the intelligent network lines 15-18, the SSF and the CCF are the network adaptive device they do the typical call connection between the switch and other devices and handle call request); a call server for determining whether the call received by said network adaptive device is a common call or a call of the intelligent network and processing the common call (see fig.4 and under the intelligent network lines 12-24, the SCF is the call server and is consulted for instructions by the network adaptive device for instructions therefore he will process the common calls); an INAP adapter for responding the call of the intelligent network and encoding/decoding the INAP message (see under Voice-Over-Packet Network lines 35-46, the IN capabilities can be access using SS71 TCAP therefore INAP which is layer on top of the TCAP); at least one SCP for executing intelligent service logics and producing INAP messages (see fig.4, there is and SCP in the PSTN side); and an IP network for connecting said

Softswitch and the SCP (see under Voice-Over-Packet Network lines 43-46).

As **claim 9**, Finkelstein discloses a method for a PSTN telephone to access into an intelligent network service in a next generation network (see introduction lines 37-40), herein there is at least one SCP in said next generation network for executing the intelligent service logics (see fig.4, the call agent is the SCP in the packet network, NGN); issuing a call request from said PSTN telephone through dialing an accessing code (see Specialized Resources lines 3-8, access web content via standard telephone connection therefore a call request using an access code); transforming said call request issued by said PSTN telephone into a protocol format suitable for the next generation network (see Specialized Resources lines 3-8, accessing the web is a service from PSTN to NGN that requires a protocol suitable for the NGN); determining whether said call request is an intelligent network service provided by the SCP or not (see under Voice-Over-Packet Network lines 35-40, the call agent support limited SCF capabilities to process service request therefore there is a way to determine if the service can be provided by the SCP); if said call request is an intelligent network service provided by the SCP, encoding said-call request into an INAP message and transferring the message to said SCP (see under Voice-Over-Packet Network lines 35-46, the SCP only communicates through TCAP,INAP is in the top layer of the TCAP protocol, therefore call request are encoded into INAP messages); and responding said INAP message and processing said call request by said SCP (see under Voice-Over-Packet Network lines 35-46, the SCP

communicates with the signaling gateway to access a service of the IN therefore the gateway will respond said INAP message and will process the call request by the SCP).

As to claims **13 and 17**, Finkelstein discloses a method for a telephone in a next generation network to access into an intelligent network service in a PSTN network (see title of fig.4, inter working of PSTN with VOIP therefore calls from one network to the other), herein there is at least one SCP in said PSTN network for executing the intelligent service logics (see fig.4, there is one SCP in the PSTN side); issuing a call request from said telephone in said next generation network through dialing an accessing code (see under Voice-Over-Packet Network lines 3540, process service request for IN capabilities in the PSTN „i.e. toll-free numbers, therefore a call request from the telephone accessing a code); determining whether said call request is an intelligent network service provided by the SCP or not (see under Voice-Over-Packet Network lines 35-40); if said call request is an intelligent network service provided by the SCP, encoding said call request into an INAP message; transforming said INAP message *into* a format suitable for the PSTN network and transferring said INAP message to said SCP (see under Voice-Over-Packet Network lines 35-46, the SCP only communicates through TCAP,INAP is in the top layer of the TCAP protocol, therefore call request are encoded into]NAP messages); and responding said INAP message and processing said call request by said SCP (see under Voice-Over-Packet Network lines 35-46, the SCP communicates with the signaling

gateway to access a service of the IN therefore the gateway will respond said INAP message and will process the call request by the SCP).

As to **claim 2**, Finkelstein discloses that said Softswitch further includes: a resource manager for managing intelligent peripherals, performing audio interaction with a user through the call server, and transmitting the user input data to said INAP adapter (see Voice-Over-Packet Network lines 35-40, the call agent (softswitch) support limited SCF capabilities to process service request ,and access IN capabilities in the PSTN therefore a resource manager for managing intelligent peripherals and see under The Intelligent Network lines 25-27, the IN can use special equipment to play announcement and collect user information and since all these functionality is done through the resource manager the user input data is transmitted to the INAP adapter).

As to **claim 3**, Finkelstein discloses characterized in that said Softswitch further includes: a signaling transmitting adapter for transferring signaling data through IP packets (see fig.4 and under Voice-Over-Packet Network lines 22-25, the fig.4 shows a signaling gateway coming from the PSTN network and since the softswitch controls the packet back bone network there is a signaling transmitter adaptor for transferring signaling data through IP packets); and a media gateway control adapter for transmitting data between said Softswitch and one or more media gateways in said network (see under Voice-Over-Packet Network lines 35 and 36 the softswitch controls various gateways therefore a media gateway control adapter).

As to **claim 4**, Finkelstein discloses wherein the softswitch characterized in that the media gateway control adapter uses one or more of the following protocols: H.323, MGCP, H.248 and SIP (see under Voice-Over-Packet Network lines 47-57).

As to **claim 5**, Finkelstein discloses wherein the softswitch characterized in that said network adaptive device includes: an INAP/TCP interface for directly transmitting an expanded INAP encoded message through TCP/IP protocol (see under Voice-Over-Packet Network lines 35-57).

As to **claim 7**, Finkelstein discloses characterized in that said system further includes: intelligent peripherals for providing special resources required by the intelligent network services (see under The Intelligent Network lines 25-32); and Said Softswitch further includes: a resource manager for managing said intelligent peripherals, performing audio interaction with a user .through the call server, and transmitting the user input data to said INAP adapter (see Voice-Over-Packet Network lines 35-46).

As to **claim 8**, Finkelstein discloses a signaling gateway, connecting to said IP network at its one side and to a PSTN network at another side, for transferring signaling data between said IP network and said PSTN network (see fig.4); a media gateway, connecting to said IP network at its one side and to a PSTN network at another side, for transferring media data between said

IP network and said PSTN network (see fig.4); said Softswitch further includes: a signaling transmitting adapter for transferring signaling data through IP packets; and a media gateway control adapter for transmitting data between said Softswitch and one or more media gateways in said network (see Voice-Over-Packet Network lines 35-36, controlling various gateways therefore a controller and a signaling adapter).

As to **claims 10 and 19**, Finkelstein discloses wherein that said step for transforming the call request includes: transforming the call request in SS7 signaling format into a format suitable for transmitting on the IP network (see fig.4, a signaling gateway therefore means for transforming ss7 signaling to IP format).

As to **claims 11 and 20**, Finkelstein discloses wherein that said step for transforming the call request includes: transforming the call request in SS7 signaling format into the SIGTRAN protocol format or H.248 protocol format (see Voice-over-Packet Network lines 55-57, Megaco/H.248).

As to **claims 12, 14 and 18**, Finkelstein discloses that said step for determining includes: searching a database that stores the accessing codes of the intelligent network, determining whether the accessing code of the call request of said PSTN telephone is an accessing code of the intelligent network

(see under Next-Generation Network).

As to **claim 15**, Finkelstein discloses that said step for transforming includes: transforming the INAP message data in 1P network format into a format suitable for the PSTN network (see Voice-Over-Packet Network lines 35-46).

As to **claim 16**, Finkelstein discloses that said step for transforming includes: transforming the INAP message data in the SIGTRAN protocol format or H.248 protocol format into the SS7 signaling format (see Voice-Over-Packet Network lines 35-57).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AKELAW A. TESHALE whose telephone number is (571)270-5302. The examiner can normally be reached on M-F 7:30am-5:00 Pm ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, FAN TSANG can be reached on (571)272-7547. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Akelaw A Teshale/
Examiner, Art Unit 2614
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